



**Faculty Student Summer Research Program  
Summer 2014**

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**The Schupf Scholars Program**

**2014-2015**

**2011-2012**

**2008-2009**

**2013-2014**

**2010-2011**

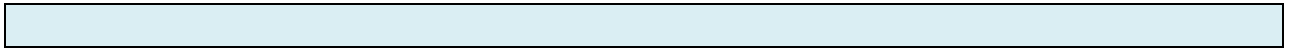
**2009-2010**

**2012-2013**

**Faculty Student Summer Research Program**

**Schedule of Final Research Presentations**

**Thursday, July 31, 2014**



**ROOM A**

**EXPLORATION OF ENVELOPES AS FOCAL SETS**

**THE OPPORTUNITY PROGRAM (OP) ALUMNI PROJECT: EXPLORING THE CAREER EXPERIENCES OF FIRST GENERATION STUDENTS AND STUDENTS OF COLOR AT A PREDOMINATELY AND HISTORICALLY WHITE LIBERAL ARTS COLLEGE**

# **PHOTOCHEMISTRY OF NITRATE CHEMIS**

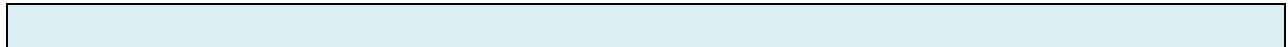
**DOES GENTLY CLEARING THE NASAL CAVITY IMPACT ODOR IDENTIFICATION?**

**TOWARDS FACIAL RECOGNITION FOR SPEAKERS AT SKIDMORE FACULTY MEETINGS**

**A TOY MODEL FOR THE NONLINEAR OPTICAL RESPONSE OF MOLECULES WITH MODULATED CONJUGATION**

**EXPANDING THE GENETIC CODE WITH PYROGLUTAMATE**

**DUAL ROUTES FOR *B. HALODURANS* ASPARAGINYL-tRNA FORMATION**



**ROOM A**

**SUCCINIC ACID TREATMENT DOES NOT IMPROVE INSULIN RESISTANCE OR ALTER ENERGY HOMEOSTASIS IN OBESE MICE**

**IDENTIFYING THE CELLULAR MECHANISM FOR THE MnTBAP-INDUCED REDUCTION IN BODY WEIGHT**

**MITOCHONDRIA'S ROLE IN SCA1 DISEASE PROGRESSION**





**VACCINE COVERAGE AND INCOME INEQUALITY IN MIDDLE INCOME DEVELOPING COUNTRIES**

**DUAL ROUTES FOR *B. SUBTILIS* ASPARAGINYL-tRNA FORMATION**

**ROOM B**

**ENGINEERING      A      COST-EFFECTIVE      MICROMANIPULATOR      FOR  
*XENOPUS***

**IMAGINATION INFLATION AND LEI ONLINE ADMINISTRATION**

**STABLIZING ENZYMES FOR A MALARIA DIAGNOSTIC TEST**

**DEVELOPMENT OF A MICROFLUIDIC ASSAY FOR ANALYSIS OF D-LACTATE IN URINE: A DIAGNOSTIC TEST FOR MALARIA**

**AMOEBAS AS A MODEL SYSTEM TO STUDY METAL DEPENDENT BACTERIAL KILLING BY MACROPHAGES**

**COPPER-SILVER CROSS RESISTANCE – TESTING THE POTENTIAL OF HOMOLOG PROTEINS OF COPA FROM *ESCHERICHIA COLI***

## PROJECT ABSTRACTS

**Project:**

**THE GREAT WAR IMAGE ARCHIVE, FRANCE, 1914-1918**

**Project:**

**POST-CONFLICT RECONSTRUCTION: WOMEN AND DEVELOPMENT IN AFGHANISTAN**



**Project:**

**THE ECONOMY OF DESIRE**

*The Economy of Desire: Botany and Empire in Seventeenth-Century Europe*  
*The Economy of Desire*

**Project:**

**IMAGINATION INFLATION AND LEI ONLINE ADMINISTRATION**

**Project:**

**THE GENERATIONAL CONSTITUTION: JEFFERSON, MADISON AND THE CALL  
FOR PERIODIC CONSTITUTIONAL RENEWAL**

*The Generational Constitution*

**Project:**

**SELECTIVELY DISTRUPTION OF THE CELL WALL OF CHAROPHYTE ALGA**  
*Penium margaritaceum*





**Project:**

**CALIBRATING A NEW METHOD FOR MEASURING OCEAN CARBON FLUXES IN THE PRESENCE OF HIGH-SILICATE PHYTOPLANKTON BLOOMS**

**Project:**

**THE EFFECTS OF MUSIC ON AUTOBIOGRAPHICAL MEMORY IN ALZHEIMER'S DISEASE (AD) PATIENTS AND HEALTHY OLDER ADULTS**

**Project:**

**LAB ON A CD PLAYER**

**Project:**

**STABLIZING ENZYMES FOR A MALARIA DIAGNOSTIC TEST**

**Project:**

**Project:**

**DEVELOPMENT OF A MICROFLUIDIC ASSAY FOR ANALYSIS OF D-LACTATE IN URINE: A DIAGNOSTIC TEST FOR MALARIA**

**Project:**

**SYNTHETIC STUDIES ON NEW TANDEM INTRAMOLECULAR DIELS-ALDER REACTIONS**

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**Project:**

**DOES GENTLY CLEARING THE NASAL CAVITY IMPACT ODOR IDENTIFICATION?**

**Project:**

**ENGINEERING A COST-EFFECTIVE MICROMANIPULATOR FOR *XENOPUS* OOCYTE INJECTION**

*Xenopus*

**Project:**

**EXPLORING THE EVOLUTION OF ETHANOL: DEVELOPMENT OF TEACHING TOOLS AND NEW EXPERIMENTS ON ETHYL ALCOHOL**

*Caenorhabditis elegans*

**Project:**

**QUANTITATIVE MODELING OF ETHANOL BINDING IN LIGAND-GATED ION CHANNELS**

**Project:**

**Project:**

**ROLE OF AN EXTRACELLULAR AMINO ACID RESIDUE IN ALCOHOL  
MODULATION OF LIGAND-GATED ION CHANNELS**

**Project:**

**Project:**

**Project:**

**CHRONOLOGICAL AND SPATIAL DIMENSIONS OF ARCHAEOLOGICAL WORK  
AT THE WATER'S EDGE SITE**

**Project:**

**A CHRONOLOGY OF HABITATION AT WATER'S EDGE**



**Project:**

**SERIAL PROCESSING OF LETTERS OR FIRST LETTER ADVANTAGE?**

**Project:**

**A NEW ECONOMY OF JOKES: HASHTAG SOCIAL MEDIA, HASHTAG COMEDY**

**Project:**

**MITOCHONDRIA'S ROLE IN SCA1 DISEASE PROGRESSION**

**Project:**

**THE OPPORTUNITY PROGRAM (OP) ALUMNI PROJECT: EXPLORING THE CAREER EXPERIENCES OF FIRST GENERATION STUDENTS AND STUDENTS OF COLOR AT A PREDOMINATELY AND HISTORICALLY WHITE LIBERAL ARTS COLLEGE**

**Project:**

**MEANINGS OF FOOD: CONVERSATIONS OF AMERICAN WOMEN ON FOOD BLOGS**

**Project:**

**COPPER-SILVER CROSS RESISTANCE – TESTING THE POTENTIAL OF  
HOMOLOG PROTEINS OF COPA FROM *ESCHERICHIA COLI***

*Escherichia coli E. coli*

*Salmonella*

*E. coli*

**Project:**

**AMOEBA AS A MODEL SYSTEM TO STUDY METAL DEPENDENT BACTERIAL  
KILLING BY MACROPHAGES**

*E. coli*



**Project:**

**INVESTIGATING THE INFLUENCE OF BEHAVIORIAL ATTRIBUTIONS ON  
BACKLASH AGAINST MALE ELEMENTARY SCHOOL EDUCATORS**

*backlash*

**Project:**

**INNOVATION, INTELLECTUAL PROPERTY AND MAKERS**

**Project:**

**Project:**

**PHOTOCHEMISTRY OF NITRATE CHEMISORBED ON DIFFERENT COMPONENTS  
OF MINERAL AEROSOL**

**Project:**

**VACCINE COVERAGE AND INCOME INEQUALITY IN MIDDLE INCOME  
DEVELOPING COUNTRIES**



**Project:**

**A TOY MODEL FOR THE NONLINEAR OPTICAL RESPONSE OF MOLECULES  
WITH MODULATED CONJUGATION**

**Project:**

**DO C(60) FULLERENE NANOPARTICLES ALTER SLEEP CYCLES IN FRUIT FLIES?**

**Project:**

**Project:**

**Project:**

**EXPANDING THE GENETIC CODE WITH PYROGLUTAMATE**

*E. coli*

**Project:**

**DISCRIMINATING NATURE OF THE *B. ANTHRACIS* ASPARTYL-tRNA SYNTHETASES**

*Bacillus anthracis*

*B. anthracis*

**Project:**

**DISCRIMINATING NATURE OF THE AS**

